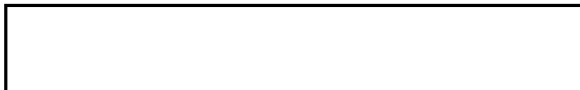
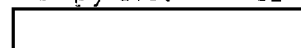


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Memorandum for Holders
USIB-D-46. 4/33
30 December 1969
Limited Distribution

UNITED STATES INTELLIGENCE BOARD

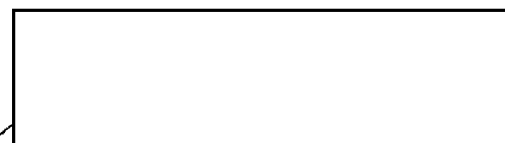
MEMORANDUM FOR HOLDERS OF USIB-D-46. 4/33

SUBJECT : World-wide Positioning Requirements
REFERENCE : USIB-D-46 4/33 (COMIREX-D-15 2/17),
12 December 1969, Limited Distribution

1. As of 24 December the United States Intelligence Board approved, by telephone vote, the COMIREX recommendations in paragraph 7 contained in the attachment to reference document.

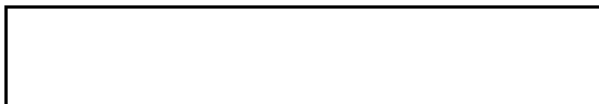
2. Accordingly, the reference COMIREX memorandum has been transmitted to the Director, NRO, for information and guidance.

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Executive Secretary

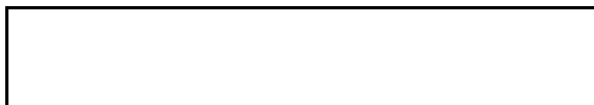
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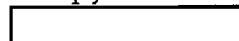
NRO review(s)

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USIB-D-46.4/33
(COMIREX-D-15.2/17)
12 December 1969
Limited Distribution

UNITED STATES INTELLIGENCE BOARD

MEMORANDUM FOR THE UNITED STATES INTELLIGENCE BOARD

SUBJECT : World-wide Positioning Requirements

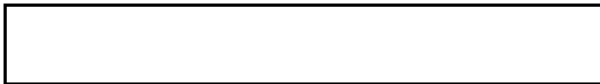
REFERENCES : a. USIB-D-41.14/295 (COMOR-D-13/65),
13 July 1966
b. USIB-D-46.4/24 (COMIREX-D-15.2/12),
29 October 1968, Limited Distribution and
Memorandum for Holders, 20 November 1968,
Limited Distribution

1. The attached memorandum on this subject from the Chairman, Committee on Imagery Requirements and Exploitation (COMIREX) is circulated herewith for Board consideration of the two recommendations in paragraph 7. The first recommendation is that USIB, because there will be no adverse affect on intelligence collection activities, advise the NRO that it has no objection to adding doppler beacons to an additional three KH-4B missions for the purpose of meeting current DoD world-wide positioning requirements. The NRO indicates that it needs the agreement of the USIB in order to initiate this action. The second recommendation is that USIB note a newly established additional DoD world-wide positioning requirement in support of long-range missiles to meet a technical objective of 210 feet horizontal and 150 feet vertical by 1974.

2. The current 1970 objective established in 1966 (reference a.) is that the positioning of Soviet bloc targets be accurate to within 450 feet horizontal and that elevations be accurate to within 300 feet vertical, both with 90 per cent assurance relative to the World Geodetic System. In 1968 USIB approved (reference b.) adding doppler beacons to five



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USIB-D-46.4/33
(COMIREX-D-15.2/17)
12 December 1969
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KH-4B systems beginning in the summer of 1969 in order to meet an initial operating capability date of June 1970 and subsequent world-wide requirements. [redacted] memorandum explains that these missions have now been reduced to four beginning in early 1970 instead of the summer of 1969. NRO indicates that the doppler beacon can be added to the three remaining KH-4B missions for an estimated cost of [redacted] without adverse effect on intelligence collection activities. COMIREX reports that the advantages to DoD far outweigh the cost involved. The memorandum also discusses the basis for tightening of the world-wide positioning objective for long-range missiles, which led to the establishment by DoD of the new 1974 technical objective of 210 feet horizontal and 150 feet vertical.

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USIB ACTION REQUESTED

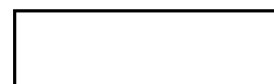
3. Board Members are requested to advise the Secretariat not later than close of business 22 December of their concurrence or other views on the COMIREX recommendations in paragraph 7 of the attachment.



Executive Secretary

Attachment

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Attachment
0059009-446.4/33

(COMIREX-15.2/17)

12 December 1969

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MEMORANDUM FOR: United States Intelligence Board

SUBJECT: World-wide Positioning Requirements

REFERENCES:

- a. USIB-D-41.14/295 (COMOR-D-13/65),
13 July 1966
- b. USIB-D-46.4/24 (COMIREX-D-15.2/12),
29 October 1968, Limited Distribution,
and Memorandum for Holders,
20 November 1968, Limited Distribution

1. This memorandum:

a. Addresses a request for doppler beacons to be placed on three additional KH-4B missions in conjunction with DoD needs for improved geodetic positioning accuracies; and,

b. Provides a statement of new positioning accuracies to meet DoD targeting objectives by 1974.

Recommendations are contained in paragraph 7.

2. Reference a. stated that long-range missile systems to be added to the U.S. inventory would require that the positioning of Sino-Soviet bloc targets be accurate to within 450 feet horizontal and that elevations be accurate to within 300 feet vertical, both with 90 percent assurance relative to the World Geodetic System. To meet the Sino-Soviet bloc requirements with an initial operating capability date of June 1970 and subsequent world-wide requirements, reference b. established USIB agreement that the NRO add doppler beacons to five KH-4B missions, beginning in the summer of 1969. Further COMIREX reviews in January - March 1969 with regard to the urgency of the requirement, and NRO problems of initiating the doppler beacon collection in the summer of 1969, resulted in scheduling four doppler beacon KH-4B missions beginning in March 1970 instead of five missions beginning in the summer of 1969.

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USIB-D-46, 4/33
(COMIREX-D-15, 2/17)
12 December 1969
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3. The NRO now indicates that, for an additional cost currently estimated at approximately [] doppler beacons and antennae can be added to the three remaining KH-4B missions which will carry the DISIC (3-inch frame camera) essential to the use of doppler beacons with the KH-4B system. The NRO, however, needs the agreement of the USIB in order to initiate this action. The NRO has further indicated that the seven missions with the doppler beacons can be operated on a satisfactory schedule to cover required objectives beginning with the first KH-4B mission in calendar year 1970.

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4. An increase of three KH-4B doppler missions properly scheduled would have the advantage to DoD of positioning a significant number of additional Priority 1 targets in line with the 450-foot horizontal and 300-foot vertical requirement, increasing the positioning accuracy of other targets and providing needed geodetic control for stereophotogram-metric mapping operations being conducted world-wide []

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[] According to the NRO, the doppler beacon can be added to the KH-4B without adverse effect on intelligence collection activities. The advantages to DoD far outweigh the [] cost involved.

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5. The Department of Defense also has indicated a tightening of the world-wide positioning objective for long-range missiles. Extensive research and development has been performed on a continuous basis to advance the capability of weapons systems. Major attention has been given to long-range missiles and supporting activities including those contributing to reducing the geodetic and geophysical error of missile operations. Factors of long lead time for acquisition and data reduction and potential benefit in missile effectiveness in view of the cost involved are the basis for the DoD establishing a technical objective of reducing the positioning ^{portions} of the geodetic and geophysical components of missile operations from the requirement accuracies of 450 feet horizontal and 300 feet vertical needed by June 1970 to 210 feet horizontal and 150 feet vertical by 1974, with all values 90 percent assurance relative to the World Geodetic System.

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6. The KH-4 DISIC with doppler beacon will meet the 450-foot horizontal and 300-foot vertical positioning requirement and will almost meet the technical objective of 210 feet horizontal under optimum conditions, i.e., 224 feet, but not the 150-foot vertical.

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Recommendations

7. It is recommended that:

a. Because there is no adverse effect on intelligence collection activities, the USIB advise the NRO that there is no objection, for the purpose of meeting current DoD world-wide positioning requirements, to adding doppler beacons to an additional three of the remaining KH-4B missions which include the DISIC (3-inch frame camera).

b. The USIB note a newly established DoD world-wide positioning requirement, in addition to that for 1970, in support of long-range missiles to meet a technical objective of 210 feet horizontal and 150 feet vertical by 1974 with 90 percent assurance relative to the World Geodetic System.

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Chairman

Committee on Imagery Requirements and Exploitation

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